

Form PTO-1449

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KUROYANAGI, Akihisa et al.FILING DATE
September 16, 2003GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	Kind	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
CL	US 4,293,519		1981-10-06	Knappenberger et al.			
	US 4,554,126		1985-11-19	Sera			
	US 5,641,996		1997-06-24	Omoya et al.			
	US 5,645,787		1997-07-08	Taruno et al.			
	US 5,698,152		1997-12-16	Taruno et al.			
	US 5,703,406		1997-12-30	Kang			
	US 5,731,370		1998-03-24	Shiobara et al.			
	US 5,990,546		1999-11-23	Igarashi et al.			
	US 6,083,774		2000-07-04	Shiobara et al.			
✓	US 6,288,169	B1	2001-09-11	Usui et al			

FOREIGN PATENT DOCUMENTS

Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
CL	JP 06 104301		1994-04-15	Japan			abstract	
	JP 08 340014		1996-12-24	Japan			abstract	
	JP 09 036149		1997-02-07	Japan			abstract	
✓	JP 03 124758	A2	1991-05-28	Japan			abstract	

OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)

EXAMINER	DATE CONSIDERED
C. Lam	01-29-2004

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